

1 This listing of claims will replace all prior versions, and listings, of claims
2 in the application:

3
4 **Listing of Claims**

5
6 Claim 1 (Currently amended): One or more computer readable media
7 containing one or more operating system programs that comprise a resource
8 browser, said one or more programs comprising computer-readable instructions for
9 performing a process comprising:

10 interacting with a user to manage computer resources, including graphically
11 browsing different computer resource areas that contain resources managed by the
12 operating system;

13 representing resources within the resource areas as icons, the resources
14 being physically moveable to and from at least some of the resource areas by
15 moving the icons;

16 at least one of the resource areas being a particular type of writable resource
17 area to which resources can be written; and

18 in response to the user clicking on an icon, presenting a menu where the
19 user is able to select a staging area not currently visible to the user.

20 ~~in response to browsing said at least one of the resource areas, defining a~~
21 ~~graphical staging area into which a user may move icons representing resources~~
22 ~~that are to be written to said at least one of the resource areas;~~

23 ~~delaying any writing of the resources represented in the staging area until~~
24 ~~detecting a user attempt to remove a storage medium from said at least one of the~~
25 ~~resource areas;~~

~~in response to detecting the user attempt to remove the storage medium,~~
~~identifying resources represented by the icons in the staging area and writing such~~
~~identified resources to the storage medium.~~

1 Claim 2 (Original): One or more computer readable media as recited in
2 claim 1, the programs further comprising:

3 prior to interacting with the user, pre-allocating a contiguous portion of
4 mass storage for future use when writing identified resources to the storage
5 medium, wherein the pre-allocated portion is large enough to create a data image
6 that is to be created on the storage medium;

7 prior to writing the staged resources to the storage medium, creating a data
8 image in the pre-allocated portion of mass storage;

9 wherein writing the identified resources comprises writing the data image to
10 the storage medium.

11 Claim 3 (Original): One or more computer readable media as recited in
12 claim 1, the programs further comprising, upon writing the identified resources,
13 writing additional resources not specifically designated by the user for use in
14 conjunction with the identified resources after they are written.

15 Claim 4 (Original): One or more computer readable media as recited in
16 claim 1, the programs further comprising, upon writing the identified resources:

17 automatically identifying a viewer program that is compatible with one or
18 more of the identified resources;

19 writing the viewer program to the storage medium for use in conjunction
20 with the identified resources after they are written.

21 Claim 5 (Original): One or more computer readable media as recited in
22 claim 1, the programs further comprising altering the icons in the staging area to
23 indicate status of the staged resources.
24
25

1 Claim 6 (Previously presented): One or more computer readable media as
2 recited in claim 1, the programs further comprising altering the icons in the staging
3 area with status overlays to indicate status of the staged resources.

4 Claim 7 (Original): One or more computer readable media as recited in
5 claim 1, the programs further comprising altering the icons in the staging area with
6 status overlays to indicate status of the staged resources, the status overlays
7 including a staged status overlay and an in-process status overlay.

8 Claim 8 (Original): One or more computer readable media as recited in
9 claim 1, the programs further comprising defining a contextually sensitive
10 command area and displaying a delete resource command option in the
11 contextually sensitive command area if and only if the particular type of writable
12 resource area is rewritable.

13 Claim 9 (Original): One or more computer readable media as recited in
14 claim 1, wherein designating a resource for representation in the graphical staging
15 area creates a reference to said designated resource rather than a copy of said
16 designated resource, the programs further comprising dereferencing said reference
17 during writing to write a current version of the designated resource, including any
18 changes to the designated resource subsequent to designating it and prior to writing
19 it.

20 Claim 10 (Cancelled)

21 Claim 11 (Original): One or more computer readable media as recited in
22 claim 1, the programs further comprising:

23 determining whether any changes are made to the identified resources prior
24 to writing them;
25

1 if a change is made to a particular identified resource prior to writing,
2 creating an unchanged copy of the particular identified resource;

3 writing the unchanged copy to the storage medium in place of the particular
4 identified resource, wherein the unchanged copy does not include changes to the
5 particular identified resource subsequent to designating it and prior to writing it.

6 Claim 12 (Currently amended): A method comprising:
7 managing a plurality of computer resources by an operating system;
8 dynamically accepting designations from a computer user of the plurality of
9 computer resources to be written to a removable storage medium; and
10 presenting, in response to a user clicking on an icon representative of the
11 removable storage medium, a menu where the user is able to select a staging area
12 not currently visible to the user.

13 ~~graphically representing the resources to be written on a separate area from~~
14 ~~files that have been written to the storage medium;~~
15 ~~detecting an attempt to remove the storage medium;~~
16 ~~in response to detecting a user attempt to remove the storage medium, batch~~
17 ~~writing the designated resources to the storage medium.~~

18 Claim 13 (Previously presented): A method as recited in claim 12, wherein
19 the batch writing is performed before removing the storage medium.

20 Claim 14 (Original): A method as recited in claim 12, further comprising,
21 in response to detecting a user attempt to remove the storage medium, prompting
22 the computer user to replace the storage medium prior to batch writing the
23 designated resources to the storage medium.

24 Claim 15 (Original): A method as recited in claim 12, further comprising,
25

1 upon writing the identified resources, writing additional resources not specifically
2 designated by the user for use in conjunction with the identified resources after
3 they are written.

4 Claim 16 (Original): A method as recited in claim 12, further comprising,
5 upon writing the identified resources:

6 automatically identifying a viewer program that is compatible with one or
7 more of the identified resources;

8 writing the viewer program to the storage medium for use in conjunction
9 with the identified resources after they are written.

10 Claim 17 (Currently amended): A graphical user interface for a computer,
11 comprising:

12 an operating system that interacts with a user to manage computer
13 resources;

14 the operating system having a resource browser that is responsive to user
15 input to explore resource areas containing different types of resources and to
16 display icons that represent the resources, at least some of the resources being
17 physically moveable to and from the resource areas by moving their corresponding
18 icons;

19 at least one of the resource areas being a staged-write resource area; and
20 in response to the user clicking on an icon, presenting a menu where the
user is able to select a staging area not currently visible to the user.

21 ~~the resource browser being configured to define a stored resource display~~
22 ~~area and a staged resource display area, the stored resource display area showing~~
23 ~~icons of resources that are already stored in a writable resource associated with the~~
24 ~~staged-write resource area, the staged resource display area showing icons of~~
25 ~~staged resources that the user desires to be written to said writable resource but~~

1 that have not yet been written to said writable resource.

2 Claim 18 (Original): A graphical user interface as recited in claim 17, the
3 resource browser being further configured to commence writing the staged
4 resources to the writable resource area upon detecting attempted removal of a
5 storage medium corresponding to the writable resource area.

6
7 Claim 19 (Previously presented): A graphical user interface as recited in
8 claim 17, wherein:

9 the resource browser is further configured, upon writing the staged
10 resources, to write additional resources to said writable resource that are not
11 specifically designated by the user for use in conjunction with the staged resources
12 after they are written.

13 Claim 20 (Original): A graphical user interface as recited in 17, further
14 comprising, upon writing the staged resources:

15 automatically identifying a viewer program that is compatible with one or
16 more of the staged resources;

17 writing the viewer program to the storage medium for use in conjunction
18 with the staged resources after they are written.

19 Claim 21 (Original): A graphical user interface as recited in claim 17,
20 wherein the resource browser alters the icons to indicate the status of the staged
21 resources.

22
23 Claim 22 (Original): A graphical user interface as recited in claim 17,
24 wherein:

25 some of the icons have status overlays corresponding to a staged status and

1 an in-process status.

2 Claim 23 (Previously presented): A graphical user interface as recited in
3 claim 17, further comprising a contextually sensitive command area, wherein the
4 resource browser includes a delete resource command in the contextually sensitive
5 command area if and only if the particular type of writable resource is rewritable.

6
7 Claim 24 (Original): A graphical user interface as recited in claim 17,
8 wherein designating a resource for representation in the staged resource display
9 area creates a reference to said designated resource rather than a copy of said
10 designated resource, said reference being dereferenced during writing to write a
11 current version of the designated resource, including any changes to the designated
12 resource subsequent to designating it and prior to writing it.

13 Claim 25 (Previously presented): A graphical user interface as recited in
14 claim 17, wherein:

15 prior to interacting with the user, the operating system pre-allocates a
16 contiguous portion of mass storage for future use when writing identified resources
17 to the writable resource area, wherein the pre-allocated portion is large enough to
18 create a data image that is to be created on the writable resource area;

19 prior to writing the staged resources to said writable resource, creating a
20 data image in the pre-allocated portion of mass storage.

21 Claim 26 (Previously presented): A graphical user interface as recited in
22 claim 17, wherein the operating system monitors staged resources for changes and
23 creates an unchanged copy of any changed staged resource for subsequent writing
24 to said writable resource in place of the changed staged resource.
25

1 Claim 27 (Currently amended): A graphical user interface for a computer,
2 comprising:

3 an operating system that interacts with a user to manage computer
4 resources;

5 the operating system having a resource browser that is responsive to user
6 input to explore resource areas containing different types of resources and to
7 display icons that represent the resources, at least some of the resources being
8 physically moveable to and from the resource areas by moving their corresponding
9 icons;

10 at least one of the resource areas being a staged-write resource area;

11 in response to the user clicking on an icon, presenting a menu where the
12 user is able to select a staging area not currently visible to the user;

13 the resource browser being configured to display icons of stored resources
14 that are already stored in the staged-write resource area and icons of staged
15 resources that the user desires to be written to the staged-write resource area but
16 that have not yet been written to said staged-write resource area;

17 wherein the resource browser shows different representations of the
18 resources depending upon whether they are stored resources or staged resources;

19 the resource browser being responsive to a user action to initiate a batch
20 write of the staged resources to the staged-write resource area.
21

22 Claim 28 (Original): A graphical user interface as recited in claim 27,
23 wherein the user action comprises attempting to remove a storage medium
24 corresponding to the staged-write resource area.
25

26 Claim 29 (Original): A graphical user interface as recited in claim 27,
27 wherein:

28 the resource browser is further configured, upon writing the staged
29

1 resources, to write additional resources not specifically designated by the user for
2 use in conjunction with the staged resources after they are written.

3 Claim 30 (Original): A graphical user interface as recited in claim 27,
4 further comprising, upon writing the staged resources:

5 automatically identifying a viewer program that is compatible with one or
6 more of the staged resources;

7 writing the viewer program to the storage medium for use in conjunction
8 with the staged resources after they are written.

9 Claim 31 (Previously presented): A graphical user interface as recited in
10 claim 27, further comprising a contextually sensitive command menu, the menu
11 including a delete resource command if and only if the particular type of staged-
12 write resource area is rewritable.

13 Claim 32 (Original): A graphical user interface as recited in claim 27,
14 wherein designating a resource for staging creates a reference to said designated
15 resource rather than a copy of said designated resource, said reference being
16 dereferenced during writing to write a current version of the designated resource,
17 including any changes to the designated resource subsequent to designating it and
18 prior to writing it.

19 Claim 33 (Previously presented): A graphical user interface as recited in
20 claim 27, wherein:
21

22 prior to interacting with a user to manage computer resources, the operating
23 system pre-allocates a contiguous portion of mass storage for future use, wherein
24 the pre-allocated portion is large enough to create a data image that is to be created
25 on the staged-write resource area;

1 prior to writing the staged resources to the staged-write resource area,
2 creating a data image in the pre-allocated portion of mass storage.

3 Claim 34 (Original): A graphical user interface as recited in claim 27,
4 wherein:

5 designating a resource for staging creates a reference to said designated
6 resource rather than a copy of said designated resource;

7 in response to any subsequent change to the designated resource the
8 operating system creates an unchanged copy of the designated resource, said
9 reference being changed to indicated the unchanged copy;

10 said reference being dereferenced during writing to write the designated
11 resource or its unchanged copy.

12 Claim 35 (Currently amended): One or more computer readable media
13 containing an operating system program, the operating system program
14 comprising:

15 accepting designations of different resources managed by the operating
16 system by a user for staging prior to writing to a removable storage medium;

17 graphically representing any resources that are already stored on the
18 removable storage medium and any resources that are staged but not written to the
19 removable storage medium;

20 detecting a user attempt to remove the removable storage media; and
21 in response to the user clicking on an icon, presenting a menu where the
user is able to select a staging area not currently visible to the user.

22 ~~in response to detecting the user attempt to remove the removable storage~~
23 ~~media, writing any staged resources to the removable storage media.~~

24 Claim 36 (Original): One or more computer readable media as recited in
25

1 claim 35, the program further comprising, upon writing the staged resources,
2 writing additional resources not specifically designated by a user, for use in
3 conjunction with the staged resources after they are written.

4 Claim 37 (Original): One or more computer readable media as recited in
5 claim 35, the program further comprising altering representations of the resources
6 to indicate the status of the staged resources.

7
8 Claim 38 (Previously presented): One or more computer readable media as
9 recited in claim 35, the program further comprising displaying a delete resource
10 command in a contextually sensitive command menu if and only if a particular
11 type of writable resource area of the removable storage media is rewritable.

12 Claim 39 (Original): One or more computer readable media as recited in
13 claim 35, the program further comprising:

14 for any staged resource that is changed prior to writing, creating an
15 unchanged copy of the staged resource;

16 writing the unchanged copy in place of the changed staged resource.

17
18 Claim 40 (Original): One or more computer readable media as recited in
19 claim 35, further comprising:

20 prior to accepting designations by users, pre-allocating a contiguous portion
21 of mass storage for use when writing staged resources, wherein the pre-allocated
22 portion is large enough to create an image of data to be written to the removable
23 storage medium;

24 prior to writing the staged resources to the removable storage media,
25 creating a write image in the pre-allocated portion of mass storage;

wherein writing the staged resources comprises writing the write image to

1 the removable storage medium.

2 Claim 41 (Currently amended): An operating system embodied on one or
3 more computer readable media, the operating system performing actions
4 comprising:

5 saving resources managed by the operating system in response to requests
6 from application programs;

7 in response to the user clicking on an icon, presenting a menu where the
8 user is able to select a staging area not currently visible to the user; and

9 ~~in response to receiving a request from an application program to save a~~
10 ~~resource on a staged write storage medium, noting that resource as being staged~~
11 ~~without writing the resource;~~

12 in response to a user initiation, writing any staged resources to the storage
13 medium.

14 Claim 42 (Original): An operating system as recited in claim 41, wherein
15 the user initiation comprises attempting to remove the storage medium.

16 Claim 43 (Original): An operating system as recited in claim 41, the actions
17 further comprising, upon writing the staged resources, writing additional resources
18 not specifically designated by a user, for use in conjunction with the staged
19 resources after they are written.

20 Claim 44 (Original): An operating system as recited in claim 41, the actions
21 further comprising:

22 for any staged resource that is changed prior to writing, creating an
23 unchanged copy of the staged resource;

24 writing the unchanged copy in place of the changed staged resource.
25

1 Claim 45 (Original): An operating system as recited in claim 41, further
2 comprising:

3 prior to receiving requests from application programs, pre-allocating a
4 contiguous portion of mass storage for use when writing staged resources to the
5 storage media, wherein the pre-allocated portion is large enough to create an image
6 of data to be written to the storage medium;

7 prior to writing the staged resources to the storage media, creating a write
8 image in the pre-allocated portion of mass storage;

9 wherein writing the staged resources comprises writing the write image to
10 the storage medium.

11 Claim 46 (Currently amended): One or more computer readable media
12 containing an operating system program, the operating system program
13 comprising:

14 accepting designations of different resources managed by the operating
15 system for staging prior to writing to a removable storage medium;

16 in response to the user clicking on an icon, presenting a menu where the
17 user is able to select a staging area not currently visible to the user.

18 ~~identifying in a staged-write resource area resources to be written, and in a~~
19 ~~separate stored resource area resources that have been written;~~

20 storing corresponding references to the designated resources;

21 for any designated resource that is changed prior to writing, creating an
22 unchanged copy of the staged resource and changing the corresponding reference
23 to indicate the unchanged copy;

24 in response to an instruction to write to the removable storage medium,
25 writing any designated resources and any unchanged copies indicated by the stored
references.

1 Claim 47 (Original): One or more computer readable media as recited in
2 claim 46, the program further comprising:

3 prior to receiving designations of different resources, pre-allocating a
4 contiguous portion of mass storage for use when writing staged resources to the
5 removable storage media, wherein the pre-allocated portion is large enough to
6 create an image of data to be written to the removable storage medium;

7 prior to writing the resources to the storage media, creating a write image in
8 the pre-allocated portion of mass storage;

9 wherein writing the staged resources comprises writing the write image to
10 the storage medium.

11 Claim 48 (New): One or more computer readable media as recited in claim
12 1, the programs further comprising, in response to detecting the user attempt to
13 remove the storage medium, identifying resources represented by the icons in the
14 staging area and writing such identified resources to the storage medium

15 Claim 49 (New): One or more computer readable media as recited in claim
16 35, the program further comprising, in response to detecting the user attempt to
17 remove the removable storage media, writing any staged resources to the
18 removable storage media.

19 Claim 50 (New): An operating system as recited in claim 41, the actions
20 further comprising:
21

22 in response to receiving a request from an application program to save a
23 resource on a staged-write storage medium, noting that resource as being staged
24 without writing the resource.
25